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# GEOGRAPHICAL LITERATURE AND MAPS

(INCLUDING ACCESSIONS TO THE LIBRARY)

## BOOK REVIEWS AND NOTICES

(The size of books is given in inches to the nearest half inch.)

### NORTH AMERICA

**The Trail of Lewis and Clark, 1804-1904.** A story of the great exploration across the continent in 1804-06; with a description of the old trail, based upon actual travel over it, and of the changes found a century later. By Olin D. Wheeler. Vol. 1: xxiii and 377 pp. Vol. 2: xv and 419 pp. Maps, ills., index. G. P. Putnam's Sons, New York, 1904. \$4 a set. 8½ x 6.

This work is and will be very useful. It is a well illustrated account of the Lewis and Clark expedition with copious extracts from their journals, explanations of parts of the original narrative, descriptions of the present aspects of the vast region through which the pioneers blazed a way, accounts of the later fortunes of Indian tribes first revealed in the epic story; and it gives, besides, probably the best solution that will be reached of problems relating to the exact routes followed at certain stages of the journey.

The story of this greatest of North American explorations teems with interest; and this book with the side-lights that the author's long studies enable him to throw upon the enterprise may be commended as a reliable and complete account of it.

**American Irrigation Farming.** A systematic and practical treatment of every phase of irrigation farming, including its history, with statistical tables and formulas. By W. H. Olin. 364 pp. Ills., index. A. C. McClurg & Co., Chicago, 1913. \$1.50. 8 x 5.

Mr. Olin who has studied irrigation farming problems for the past ten years throughout the entire irrigated area of Colorado, Wyoming, and Idaho, says that the total cost per acre of growing potatoes under irrigation is \$38.50 and one irrigated district of 3,000 acres of potatoes is producing better than 300 bushels per acre. This is only one instance in many. Other crops pay proportionately as well, and it is with the purpose of showing the novice as well as the seasoned farmer how these large yields may be obtained, that the book is written.

Starting with a history of irrigation and an explanation of its fundamental terms, the author next considers the various types of soils; the habits of plants in arid regions; preparation of the seed bed; methods of levelling the ground for effective irrigation; detailed directions for planting, caring for, and harvesting those crops best suited to irrigation; best rotation of crops; in short, everything which is required for a thorough and practical understanding of farming by irrigation. The volume concludes with statistics and working tables.

WILBUR GREELEY BURROUGHS.

**The Climate and Weather of San Diego, California.** By Ford A. Carpenter. xii and 118 pp. Charts, ills., index. San Diego Chamber of Commerce, 1913. 7 x 5.

Mr. Ford A. Carpenter was for sixteen years Local Forecaster at San Diego. He evidently writes *con amore*. A more charming account of local climate we have never seen. There is a charm of style and an attractiveness of presentation which cannot help leaving the reader who has never been in San Diego with a strong desire to take the first train for that favored spot. That the